Coordinates of a Point

A. Choose the Correct Answer:

1. The coordinates of a point are written in the form:

a) (y, x) b) (x, y)

c) (x + y) d) (y – x)

2. In the point (3, 5), 3 represents:

a) Ordinate b) Abscissa

c) Axis d) Origin

3. In the point (–4, 2), 2 is called the:

a) Abscissa b) X–coordinate

c) Ordinate d) Origin

4. The coordinates of a point lying on the X-axis will have:

a) y = 0 b) x = 0

c) x = y d) x and y both nonzero

5. The coordinates (0, 6) represent a point lying on the:

a) X–axis b) Y–axis

c) Origin d) Both axes

B. Write the Missing Terms to Complete the Sentences:

1. The _____ coordinate is written first in the ordered pair
2. In (x, y), x is the _____ and y is the _____
3. The point (0, 5) lies on the _____
4. If a point lies on the Y–axis, its x–coordinate is _____
5. The point (5, 0) lies on the _____

C. Figure out the answers to these questions:

1. Find the abscissa and ordinate of the point (7, –3)
2. Write the coordinates of a point whose abscissa is –4 and ordinate is 2
3. Identify the axis on which the point (0, –6) lies
4. State whether (2, 0) lies on the X–axis or Y–axis
5. Write the coordinates of a point 5 units left of the origin on the X–axis

D. Mark each sentence with a True (✓) or False (✗):

1. The coordinates are always written in the form (x, y). _____
2. In (x, y), y is the abscissa. _____
3. A point on the Y–axis has abscissa zero. _____
4. The ordinate of (5, 7) is 5. _____
5. The origin is represented by (0, 0). _____

E. Challenge yourself with these questions:

1. What is the ordinate of the point (–8, 3).
2. What is the abscissa of the point (6, –5).
3. Find the coordinates of a point lying on the X–axis at 7 units from origin.
4. Find the coordinates of a point lying on the Y–axis at –4 units from origin.
5. Write the coordinates of the point 3 units above the origin.